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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D AMERIQUE

Date of mailing (day mor thivear) 12 April 2000 (12.04.00)

in its capacity as elected Office.

International application No PCT GB99 02761	Applicant's or agent's file reference MEDW P21404PC
International filing date (day month year)	Priority date Iday month year}
19 August 1999 (19.08.99)	27 August 1998 (27.08.98)

Applicant

COHEN, Patricia, Townsend, Wade et al.

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	16 March 2000 (16.03.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or where Rive 32 applies, within the time and transfer Rule 32-2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland 11 2. The 11 Geneva 20.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MEDW/P21404PC	(Form PCT/ISA/220) as well as where applicable, item 5 below			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB 99/02761	19/08/1999	27/08/1998		
Applicant MEDICAL RESEARCH COUNCIL	et al.			
This International Search Report has be according to Article 18. A copy is being	en prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant		
X It is also accompanied b	ts of a total of5sheets. by a copy of each prior art document cited in this	s report.		
Basis of the report a. With regard to the language, the language in which it was filed. u	e international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the		
the international search Authority (Rule 23.1(b)).	was carried out on the basis of a translation of	he international application furnished to this		
was carried out on the basis of t contained in the internat filed together with the internat	Ind/or amino acid sequence disclosed in the in the sequence listing: ional application in written form. ternational application in computer readable for	nternational application, the international search		
	to this Authority in written form.			
	furnished subsequently to this Authority in computer readble form. X the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
international application	as filed has been furnished.	oes not go beyond the disclosure in the		
X the statement that the in furnished	formation recorded in computer readable form i	s identical to the written sequence listing has been		
2. X Certain claims were for 3. Unity of invention is lar	und unsearchable (See Box I).			
4. With regard to the title ,				
	ubmitted by the applicant.			
PROTEIN DOMAINS IN TH	shed by this Authority to read as follows: IE HEPATIC GLYCOGEN-TARGETTII HODS OF MAKING AND UNSING TI	NG SUBUNIT OF PROTEIN HE SAME /		
5. With regard to the abstract,				
the text has been establi	ubmitted by the applicant. shed. according to Rule 38.2(b), by this Authori e date of mailing of this international search rep	ly as it appears in Box III. The applicant may, ort. submit comments to this Authority.		
6. The figure of the drawings to be pub	lished with the abstract is Figure No.			
as suggested by the app	licant	X None of the figures.		
because the applicant fai	00 0			
because this figure bette	r characterizes the invention.			

BOXI	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons.
1. X	Claims Nos: because they relate to subject matter not required to be searched by this Authority namely. Remark: Although claims 1-5 and 13-15 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
	Claims Nos.: 12 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out. specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 12

Present claim 12 and claims 13 and 14, as far as they relate to claim 12, relate to a compound and method defined (inter alia) by the ability to compete with peptide PEWPSYLGYEKLYPYY in a test method. The use of the test method in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search impossible. Consequently, no search has been performed for the above mentioned compounds and methods.

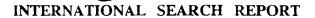
The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Int tional Application No

		PC	T/GB 99/02761
A CLASS IPC 7	FICATION OF SUBJECT MATTER C07K14/47 A61K38/17 G01N3	3/68	
According t	to international Patent Classification (IPC) or to both national class	stitication and IPC	
	SEARCHED		
Minimum di IPC 7	ocumentation searched (classification system followed by classifi C07K A61K G01N	cation symbols)	
	ation searched other than minimum documentation to the extent the		
шескольс с	tata base consulted during the International search (name of data	base and, where practical, searc	sh terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
P,X	C.G. ARMSTRONG ET AL.: "Identithe separate domains in the hep glycogen-targeting subunit of phosphatase 1 that interact with phosphatase 1" BIOCHEMICAL JOURNAL, vol. 336, 15 December 1998 (199 pages 699-704, XP002127680 page 702, left-hand column, par page 703, right-hand column, par figure 7	eatic Protein ch otein 8-12-15),	1-5,13,
<u> </u>	ner documents are listed in the continuation of box C.	Patent family membe	ere are listed in annex.
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or whilch is cited to establish the publication date of another citation or other special reason (as specified) "O" document eriening to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an invention cannot be considered in invention and comment of particular relevance; the claimed invention cannot be considered to involve an invention cannot be considered to involve an invention cannot be considered to involve an invention and invention cannot be considered to involve an invention cannot be considered to involve an invention cannot be considered invention and invention cannot be considered to involve an invention and invention cannot be considered invention. "Y" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an invention and invention cannot be considered to involve an invention and invention cannot be considered to involve an invention and invention cannot be considered to involve an invention and invention an			conflict with the application but inholple or theory underlying the evance; the claimed invention rel or cannot be considered to when the document is taken alone evance; the claimed invention motive an inventive step when the thin one or more other such docubeling obvious to a person skilled earne patent family
14	January 2000	28/01/2000	
Name and m	alling address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijewljk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Fuhr, C	

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Inta ional Application No PCT/GB 99/02761

<u></u>	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	G. MOORHEAD ET AL.: "Purification of the hepatic glycogen-associated form of protein phosphatase-1 by microcystin-Sepharose affinity chromatography" FEBS LETTERS, vol. 362, 1995, pages 101-105, XP002127681 AMSTERDAM NL page 101, left-hand column, paragraph 2 -right-hand column, paragraph 1 page 104, right-hand column, paragraph 1 -page 105, left-hand column, paragraph 1	
4	J.L. MARTIN ET AL.: "Glucose Analogue Inhibitors of Glycogen Phosphorylase: The Design o Potential Drugs for Diabetes" BIOCHEMISTRY, vol. 30, 20 October 1991 (1991-10-20), pages 10101-10116, XP002122960 EASTON, PA US page 10112, right-hand column, paragraph 1 -page 10115, left-hand column, last paragraph	1
A	W.H. MARTIN ET AL.: "Discovery of a human liver glycogen phosphorylase inhibitor that lowers blood glucose in vivo" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 95, February 1998 (1998-02), pages 1776-1781, XP002122959 WASHINGTON US page 1779, right-hand column, paragraph 2 -page 1781, left-hand column, paragraph 1	
A	EP 0 846 763 A (MEDICAL RES COUNCIL; UNIV DUNDEE (GB); SMITHKLINE BEECHAM CORP (US) 10 June 1998 (1998-06-10) claims	

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ation on patent family members

International Application No.

Publication Patent document Publication Patent family member(s) date cited in search report $\text{dat} \varepsilon$ US 5939284 A JP 10201491 A 17-08-1999 EP 0846763 Α 10-06-1998 04-08-1998

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MEDY/P21404PC			FOR FURTHER ACTION	~ N I	ation of Transmittal of Internation Examination Report (Form PC	
Internationa	al appl	ication No.	International filing date (day/	/month/year)	Priority date (day/month/year	·)
PCT/GB99/02761			19/08/1999	, ,	27/08/1998	,
International Patent Classification (IPC) or national classification and IPC C07K14/47				<u></u>		
Applicant						
MEDICA	L RE	SEARCH COUNCIL e	t al.			<u>.</u>
		ational preliminary exami smitted to the applicant a		pared by this Inte	ernational Preliminary Exam	ining Authority
2. This F	REPC	PRT consists of a total of	8 sheets, including this co	ver sheet.		
b (s	☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.					
3. This r	_		iting to the following items:			
1		Basis of the report				
		Priority Non-establishment of a	pinion with regard to novel	ty inventive etch	and industrial applicability	
IV		Lack of unity of invention	·	ty, inventive step	and industrial applicability	
V	ß	Reasoned statement ur			entive step or industrial appl	licability;
VI	[]	Certain documents cité	, -			
VII		Certain defects in the in	nternational application			
VIII	Ŋ	Certain observations or	n the international application	on		
Date of submission of the demand			Da	ate of completion of	this report	
16/03/200	16/03/2000).11.2000		
l .	exam	g address of the international ining authority:	l Au	uthorized officer	-	STORES MILLINGS
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			S epmu d	enggli-Zulliger, elephone No. +49 89		THE STATE ST

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/02761

I. Basis of the report

 This report has been drawn on the basis of (substitute sheets which have been furnished to the recresponse to an invitation under Article 14 are referred to in this report as "originally filed" and are not the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages: 			on under Article 14 are referred to in this report as "originally filed" and are not annexed to				
	1-3	34	as originally filed				
	Cla	aims, No.:					
	1-1	4	as originally filed				
	Dra	awings, sheets:					
	1/7	-7/7	as originally filed				
2. With regard to the language , all the elements marked above were available or furnished to this Aut language in which the international application was filed, unless otherwise indicated under this item			ruage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.				
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:				
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pu	blication of the international application (under Rule 48.3(b)).				
		the language of a 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule				
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:				
		contained in the in	rernational application in written form.				
	filed together with the international application in computer readable form.						
		furnished subsequ	ently to this Authority in written form.				
		furnished subsequ	ently to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				

International application No. PCT/GB99/02761

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

		the drawings, sheets:	
5.			ed as if (some of) the amendments had not been made, since they have been isclosure as filed (Rule 70.2(c)):
		(Any replacement sheet conta report.)	ining such amendments must be referred to under item 1 and annexed to this
6.	Add	dditional observations, if necess	ry:
111.	. Nor	on-establishment of opinion w	th regard to novelty, inventive step and industrial applicability
		uestions whether the claimed in be industrially applicable have n	rention appears to be novel, to involve an inventive step (to be non-obvious), t been examined in respect of:
		the entire international applica	ion.
	×	claims Nos. 1-6, 12-14.	
be	caus	use:	
			on, or the said claims Nos. 1-5, 13-14 relate to the following subject matter relational preliminary examination (<i>specify</i>):
	☒		ings (<i>indicate particular elements below</i>) or said claims Nos. 1-3, 6, 13, 14 are opinion could be formed (<i>specify</i>):
		the claims, or said claims Nos could be formed.	are so inadequately supported by the description that no meaningful opinion
	\boxtimes	no international search report 14(partially).	nas been established for the said claims Nos. 12, 13(partially) and
2.	and		ary examination report cannot be carried out due to the failure of the nucleotide to comply with the standard provided for in Annex C of the Administrative
		the written form has not been	urnished or does not comply with the standard.
		the computer readable form h	s not been furnished or does not comply with the standard.
,	Pos	acanad atatamant under Artic	25/2) with regard to povolty inventive step or industrial applicabilities

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement



International application No. PCT/GB99/02761

Novelty (N)

Yes: Claims 4, 5, 7-11

No: Claims

Inventive step (IS)

Yes: Claims 8

No: Claims 4, 5, 7, 9-11

Industrial applicability (IA)

Yes: Claims 6-12

No: Claims -

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item I

Basis of this report

4. Additional observations:

The subject-matter of claims 4, 7 and 9 was examined based on the sequence disclosed in the description (pages 4-7) i.e. PEWPSYLGYEKLGPYY corresponding to the C-terminal 16 amino acids of rat liver G₁ (page 4, lines 4-5) as disclosed in sequence ID n°3 of D2.

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1) Claims 1-5, 13-14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).
- 2) No opinion with regard to novelty, inventive step and industrial applicability was established on the subject-matter of claims 1-3, 6, 13, 14 because of lack of clarity. The compound as characterised in the claim can be an infinite number of very different substances that are not necessarily structurally related, rendering subject-matter of claims 1-3, 6, 13-14 not clearly defined. So many chemical compounds or polypeptides can fall under the scope of the claim that no meaningful interpretation with respect to novelty and inventive step can be made.

Furthermore, the particular parameters used to define the above mentioned compound have not been tested for drugs or peptides of the prior art. Consequently, this renders impossible to evaluate whether or not these products fall under the scope of the claims.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: G. MOORHEAD ET AL.: 'Purification of the hepatic glycogen-associated form of protein phosphatase-1 by microcystin-Sepharose affinity chromatography' FEBS LETTERS, vol. 362, 1995, pages 101-105.

D2: EP-A-0 846 763 (MEDICAL RES COUNCIL ;UNIV DUNDEE (GB); SMITHKLINE BEECHAM CORP (US), 10 June 1998.

Novelty (Article 33(1) and (2) PCT)

1) The medical use or a pharmaceutical composition comprising the 16mer amino acid sequence of PEWPSYLGYEKLGPYY or a method for identifying an inhibitor compound using this 16mer amino acid sequence are not disclosed in the cited prior art. Therefore, the subject-matter of claims 4, 5, 7, 8-11 is novel.

Inventive step (Article 33(1) and (3) PCT)

1) Document D1 which is considered to be the closest prior art, discloses the cloning of liver G_L and its binding to *phosphorylase a* (Figure 5).

The difference between D1 and the present application is the provision of a inhibitor of the above mentioned interaction to be used in medicine.

In view of D1, the problem to be solved is to provide an inhibitor of the binding of phosphorylase a and G_{L} to be used in medicine.

The solution proposed by the present application is to use a polypeptide comprising the sequence PEWPSYLGYEKLGPYY in medicine in order to block the interaction of phosphorylase a and G₁.

EXAMINATION REPORT - SEPARATE SHEET

The question to be answered with respect to inventive step is whether it was obvious for the person skilled in the art to use a polypeptide comprising that sequence to block the binding of phosphorylase a and G. .

From D1, it is clear that G_i binds to *phosphorylase a* and the sequence of G_i is known from D2 (Sequence ID n°3). Therefore, the use of one of the partner of the binding, such as the full-length G₁ to inhibit/compete with that binding is part of the obvious strategies used by the person skilled in the art.

Moreover, the medical use of such an inhibitor is evident due to the biochemical role that PP1 enzyme plays in the glycogen metabolism, including modulation of glycogen synthase as developed in D2 (page 2, lines 14-38, 57-58 and page 3, lines 1-2).

Therefore, as far as the full-length of G₁ is concerned, the subject-matter of claims 4, 5 and 7 does not involve an inventive step in view of D1 in combination with D2 and the common general knowledge.

- 2) Methods to identify potential inhibitors of a known binding using the full-length proteins is well known in the art as illustrated in D2 (page 3, lines 47-58). Therefore, in view of D1 in combination with D2 and the common general knowledge, the subject-matter of claims 9-11 does not involve an inventive step.
- 3) The subject-matter of claim 8 appears to be inventive, because it cannot be derived from the cited prior art that a truncated version of the glycogen-targeting subunit of protein phosphatase 1 can be able to block the interaction of G_L with protein phosphatase 1, since the identification of the particular domains involved in that interaction are not known. However, the attention of the applicant is drawn to the fact that this claim is dependent on claim 6 for which no opinion could be formulated with regard to novelty, inventive step (see RE Item III of this IPER).

Industrial application (Article 33(1) and (4) PCT)

4) For the assessment of the present claims 1-5, 13-14 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known com-

EXAMINATION REPORT - SEPARATE SHEET

pound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item VIII

Certain observations on the international application

- 1) Claims 1 and 6 does not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not defined. The claim attempts to define the subject-matter in terms of the result to be achieved which merely amounts to a statement of the underlying problem. Such a definition is only allowable under the conditions elaborated in the PCT Guidelines, Section IV, III, 4.7. In this instance, however, such a formulation is not allowable, because it appears possible to define the subject-matter in more concrete terms, as for example, by including structural features such as a part of the sequence of the claimed protein.
- 2) Subject-matter of claims 1 and 6 is broader than what is disclosed in the present application in which only one peptide (page 4, lines 4-5) is disclosed but no other example that could allow such a generalisation. Therefore subject-matter of claim 1 is not supported by the description in its full breadth as required by Article 6 PCT, as its scope is broader than justified by the description and the figures. Technical features such as the nucleotide or an amino acid sequences should be included.
- 3) The term "fragment" used in claims 4, 7 and 9 is not clear in the sense of Article 6 PCT, because the size of such fragments is not defined rendering the limits of the claims undefined too.
- 4) The term "variants" in claims 4, 7 and 9 is not clear in the sense of Article 6 PCT, since the extent of such variations is not precised. This term could comprise not even functionally related sequences that share very little homology to the reference sequence. The description does not seem to be enabling for such a broad subject-matter.